

# EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S12 0	3298	(planar adj2 antenna)	US-PGPUB; USPAT	OR	ON	2007/08/07 15:14
S12 1	78	S120 same (periodic\$8)	US-PGPUB; USPAT	OR	ON	2007/08/07 14:36
S12 2	32	S120 with (periodic\$8)	US-PGPUB; USPAT	OR	ON	2007/08/07 14:38
S12 3	71	S120 with (mov\$8)	US-PGPUB; USPAT	OR	ON	2007/08/07 14:41
S12 4	13	S120 with vibrat\$8	US-PGPUB; USPAT	OR	ON	2007/08/07 14:56
S12 5	22	S120 near3 (mov\$8)	US-PGPUB; USPAT	OR	ON	2007/08/07 14:52
S12 6	19	(planar adj2 antenna) with speaker	US-PGPUB; USPAT	OR	ON	2007/08/07 14:48
S12 7	22	(integrated adj2 antenna) with speaker	US-PGPUB; USPAT	OR	ON	2007/08/07 14:48
S12 8	7777	planar adj2 element	US-PGPUB; USPAT	OR	ON	2007/08/07 14:53
S12 9	662	S128 same antenna	US-PGPUB; USPAT	OR	ON	2007/08/07 14:53
S13 0	4	S129 same vibrat\$4	US-PGPUB; USPAT	OR	ON	2007/08/07 14:53
S13 1	140	S120 with function	US-PGPUB; USPAT	OR	ON	2007/08/07 14:52
S13 2	1662	patch adj2 element	US-PGPUB; USPAT	OR	ON	2007/08/07 14:53
S13 3	1035	S132 same antenna	US-PGPUB; USPAT	OR	ON	2007/08/07 14:53
S13 4	4	S133 same vibrat\$4	US-PGPUB; USPAT	OR	ON	2007/08/07 14:54
S13 5	0	S120 same (piezoelectirc or piezoceramic)	US-PGPUB; USPAT	OR	ON	2007/08/07 14:54
S13 6	1	S120 same (piezoelectric or piezoceramic)	US-PGPUB; USPAT	OR	ON	2007/08/07 14:54
S13 7	2	S120 same (piezo-electric or piezo-ceramic)	US-PGPUB; USPAT	OR	ON	2007/08/07 14:54
S13 8	59	S120 and (piezoelectric or piezoceramic)	US-PGPUB; USPAT	OR	ON	2007/08/07 14:55
S13 9	24	S120 and (antenna same (piezoelectric or piezoceramic))	US-PGPUB; USPAT	OR	ON	2007/08/07 14:55
S14 0	8649	((flat or plane or planar) adj2 antenna)	US-PGPUB; USPAT	OR	ON	2007/08/07 14:56

## EAST Search History

S14 1	17	S140 with vibrat\$8	US-PGPUB; USPAT	OR	ON	2007/08/07 14:56
S14 2	4	S141 not S124	US-PGPUB; USPAT	OR	ON	2007/08/07 14:56
S14 3	84	(planar adj2 antenna) with (mov\$8 or vibrat\$4)	US-PGPUB; USPAT	OR	ON	2007/08/07 14:58
S14 4	32	S143 and ((mobile or wireless or cellular or radio or portable or cell), adj2 (phone or telephone or device or unit or apparatus or station))	US-PGPUB; USPAT	OR	ON	2007/08/07 15:09
S14 5	12	("5764190"   "5892483"   "5940038"   "6204819"   "6211830"   "6222496"   "6225951").PN. OR ("6646606").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 15:11
S14 6	7	(planar adj2 antenna) with sound	US-PGPUB; USPAT	OR	ON	2007/08/07 15:15
S14 7	6	(planar adj2 antenna) with (vibrat\$4 or sound)	EPO; JPO	OR	ON	2007/08/07 15:16
S14 8	26	(planar adj2 antenna) with (vibrat\$4 or sound)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 15:17
S14 9	3230	antenna and piezoelectric and vibrat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 07:32
S15 0	181	antenna same piezoelectric same vibrat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 07:28
S15 1	69	antenna with piezoelectric with vibrat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 07:28
S15 2	43	antenna with piezoelectric with vibrat\$4	US-PGPUB; USPAT	OR	ON	2007/08/08 07:32
S15 3	1525	antenna near2 speaker	US-PGPUB; USPAT	OR	ON	2007/08/08 07:33
S15 4	38	S149 and S153	US-PGPUB; USPAT	OR	ON	2007/08/08 07:32
S15 5	30	(antenna near2 speaker) with (inegrat\$4 or combin\$8)	US-PGPUB; USPAT	OR	ON	2007/08/08 07:33
S15 6	70	(antenna near2 speaker) with (integrat\$4 or combin\$8)	US-PGPUB; USPAT	OR	ON	2007/08/08 07:37

## EAST Search History

S15 7	13987	((planar or plane or strip or micro-strip or flat or microstrip) near2 antenna)	US-PGPUB; USPAT	OR	ON	2007/08/08 07:48
S15 8	21	S156 and S157	US-PGPUB; USPAT	OR	ON	2007/08/08 07:34
S15 9	72	(antenna near2 vibrat\$8) and S157	US-PGPUB; USPAT	OR	ON	2007/08/08 07:37
S16 0	12	(antenna near2 vibrat\$8) same S157	US-PGPUB; USPAT	OR	ON	2007/08/08 07:38
S16 1	19	S159 and S149	US-PGPUB; USPAT	OR	ON	2007/08/08 07:38
S16 2	84	(planar adj2 antenna) with (mov\$8 or vibrat\$4)	US-PGPUB; USPAT	OR	ON	2007/08/08 07:38
S16 3	32	S162 and ((mobile or wireless or cellular or radio or portable or cell) adj2 (phone or telephone or device or unit or apparatus or station))	US-PGPUB; USPAT	OR	ON	2007/08/08 07:39
S16 4	32	S163	US-PGPUB; USPAT	OR	ON	2007/08/08 07:38
S16 5	27	S159 and ((mobile or wireless or cellular or radio or portable or cell) adj2 (phone or telephone or device or unit or apparatus or station))	US-PGPUB; USPAT	OR	ON	2007/08/08 07:40
S16 6	1545	antenna with (sound or wave) with (vibrat\$4 or mov\$8)	US-PGPUB; USPAT	OR	ON	2007/08/08 07:45
S16 7	1760	antenna with (sound or wave or ring\$4) with (vibrat\$4 or mov\$8)	US-PGPUB; USPAT	OR	ON	2007/08/08 07:45
S16 8	342	S157 and S167	US-PGPUB; USPAT	OR	ON	2007/08/08 07:45
S16 9	43	S157 same S167	US-PGPUB; USPAT	OR	ON	2007/08/08 07:45
S17 0	2	((planar or plane or strip or micro-strip or flat or microstrip) near2 antenna) near4 (generat\$6 near2 sound)	US-PGPUB; USPAT	OR	ON	2007/08/08 07:48
S17 1	5	((planar or plane or strip or micro-strip or flat or microstrip) near2 antenna) near4 (sound adj2 wave)	US-PGPUB; USPAT	OR	ON	2007/08/08 07:49
S17 2	5	((planar or plane or strip or micro-strip or flat or microstrip) near2 antenna) near4 (vibration)	US-PGPUB; USPAT	OR	ON	2007/08/08 07:50
S17 3	1	((planar or plane or strip or micro-strip or flat or microstrip) near2 antenna) near4 (vibrating)	US-PGPUB; USPAT	OR	ON	2007/08/08 07:50

## EAST Search History

S17 4	0	((planar or plane or strip or micro-strip or flat or microstrip) near2 antenna) near4 (vibrates)	US-PGPUB; USPAT	OR	ON	2007/08/08 07:49
S17 5	1	("5970393").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/08 09:47
S17 6	3	(piezoelectric with ground) same ((planar or plane or flat or microstrip or patch) near2 antenna)	US-PGPUB; USPAT	OR	ON	2007/08/08 10:11
S17 7	3	((piezoelectric or piezo or piezo-electric or piezoceramic or piezo-ceramic) with ground) same ((planar or plane or flat or microstrip or patch) near2 antenna)	US-PGPUB; USPAT	OR	ON	2007/08/08 09:53
S17 8	13	((piezoelectric or piezo or piezo-electric or piezoceramic or piezo-ceramic) with ground) and ((planar or plane or flat or microstrip or patch) near2 antenna)	US-PGPUB; USPAT	OR	ON	2007/08/08 09:53
S17 9	10	S178 not S177	US-PGPUB; USPAT	OR	ON	2007/08/08 09:53
S18 0	557	(vibration adj2 oscillator)	US-PGPUB; USPAT	OR	ON	2007/08/08 10:11
S18 1	28	S180 and antenna	US-PGPUB; USPAT	OR	ON	2007/08/08 10:11
S18 2	7	S180 same antenna	US-PGPUB; USPAT	OR	ON	2007/08/08 10:11